

# 7669

## **BOARD DIPLOMA EXAMINATION, (C-20)**

## OCTOBER / NOVEMBER—2023

#### **DPET - FIFTH SEMESTER EXAMINATION**

HSE AND FF IN PETROLEUM INDUSTRY

Time: 3 Hours [ Total Marks: 80

### PART—A

 $3 \times 10 = 30$ 

**Instructions:** (1) Answer **all** questions.

- (2) Each question carries **three** marks.
- (3) Answers should be brief and straight to the point and shall not exceed five simple sentences.
- **1.** Write any two environmental regulation acts in a petroleum industry.
- **2.** What is mean by waste migration?
- **3.** Define risk assessment.
- **4.** Write down the impacts of cadmium and mercury on humans and animals.
- **5.** What is mean by solidification?
- **6.** Write a short note in petroleum wastes.
- **7.** What are fire losses?
- **8.** Define flash and fire point.
- **9.** Write a short note on fire pumps.
- **10.** Write a short note on portal fire extinguishers.

**PART—B** 8×5=40

**Instructions:** (1) Answer **all** questions.

- (2) Each question carries eight marks.
- (3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.
- **11.** (a) Explain about the overview of drilling process.

(OR)

- (b) Discuss about air emissions.
- **12.** (a) Discuss about the impact of drilling and production operations.

(OR)

- (b) Explain briefly about the acoustic impacts and effects of offshore platforms.
- **13.** (a) Discuss about the different methodologies for treatment of water.

(OR)

- (b) What are the different waste disposal methods in petroleum industry?
- **14.** (a) Explain about the flammability limits and flammable range.

(OR)

- (b) Discuss about the causes of fire and flame progression.
- **15.** (a) Explain about the water suppression system.

(OR)

(b) Explain about the water spray systems and water flooding system.

**Instructions:** (1) Answer the following question.

- (2) The question carries **ten** marks.
- (3) Answer should be comprehensive and the criterion for valuation is the content but not the length of the answer.
- **16.** Explain about the overview of environmental issues.

